ens out of the West from the Stars:

OR, A NEW

PHEMERIS

Made in *Wiltshire*,

After the Old Fashion,

or the Year of our Lord, 1688.

Being the *Bissextile*, or Leap-year.

Et a Creatione Mundi, 5637.

n may be found the Motions of the Planets, with the al and Lunar Aspects, Eclipses, Solar Ingress, the In-, Decrease, and Length of the Days, with the Rising Setting of the Sun, the Terms and their Returns, In-ion of Weather, with Remarkable Observations on Month; with sundry and many other things and ne-y Rules, Tables and Directions, of excellent use for Scholars.

h is added, a short Account of the moveable and easts in the year, with the original and end of their ion; whereby any ordinary Capacity may quickly tand the main Body of our *English* Calender.

ed for the *Meridian* of the Ancient and Renowned nce famous) Burrough Town of *Ludgershall*, in the y of *Wilts*, where the *Pole-Artick* is elevated above izon, 51d. 19m. 43s.

William Davis, Student in the Mathematicks.

DON: Printed by *R. R* for the Company of STATIONERS

ORRERY

TO THE

Truly Learned and Loyal Gentleman

MY MOST

Honoured and Noble Friend,

THE

Worthy and Honourable

THOMAS NEALE

OF

LONDON, Esquire.

One of the Burgesses for the Burrough of *LUDGERSHALL* in the County of *WILTS*.

WILLIAM DAVIS,

Wisheth him all Happiness imaginable, with Health and Prosperity in this Life, and Eternal Joy in the Life to come.

And to intimate the Reality and Candor of his Respects, and in humble Acknowledgment of several Favours received, Assumes the Boldness to Present and Dedicate these his (this Years) poor

ASTRONOMICAL RECREATIONS.

Ludgershall *die Lunæ*,
Junii 13. 1687.

A Table to know when the Terms begin and end with their Returns for this present Year 1688.

Hillary Term begins the 23*th* of *January*, and ends the 13*th* of *February*, and hath 4 Returns.	1	*Octob. Hil. Januar.*	24
	2	*Quind. Hil. Jan.*	27
	3	*Craſt. Purif. Feb.*	3
	4	*Octob. Purif. Feb.*	9
Eaſter Term begins the 2*d* day of *April*, and ends the 28*th* of *May*, and hath 5 Returns.	1	*Quind. Paſ. Apr.*	30
	2	*Treſ. Paſch. May*	7
	3	*Menſ. Paſch. May*	14
	4	*Quinq. Paſch. May*	21
	5	*Craſt. Aſcend. May*	25
Trinity Term begins the 15*th* day of *June*, and ends the 4*th* of *July*, and hath 4 Returns.	1	*Craſt. Trin. June*	11
	2	*Octob. Trin. June*	18
	3	*Quinq. Trin. June*	25
	4	*Tres. Trin. June*	2
Michaelmas Term begins the 23*th* of *October*, and ends the 28*th* day of *November*, and hath 6 Returns.	1	*Treſ. Mich. Octob.*	20
	2	*Menſ. Mich. Octob.*	27
	3	*Craſt. Anim. Novem.*	3
	4	*Craſt. Mart. Novem.*	12
	5	*Octob. Mart. Nov.*	19
	6	*Quind. Mart. Nov.*	26

The Common Notes, and Moveable Feasts, in both Accounts for this Year, 1688.

Julian or English.			Gregorian or Foreign.
17	Golden Number	17	
17	Circle of the *Sun.*	17	
7	Epact.	27	
A G	Dominic. Letters	D C	
February 26	Shrove Sunday	*February* 29	
April 15	Easter Day	*April* 18	
May 24	Ascension Day	*May* 27	
June 3	Whit-Sunday	*June* 6	
June 10	Trinity Sunday	*June* 13	
December 2	Advent Sunday	*November* 28	

A CHRONOLOGY.

From the Creation of the World, according to the

	Years.
Græcian Church	7187
Roman Church	6887
Hebrew and *Jews*	5648
Holy Writ	5637
Birth of Christ	1688
The Passion of Christ	1655
Mahomet left the *Turks*	1097
The Calender corrected	106

January hath XXXI Days.

This month, inhumane Rebels shed the blood
Of Reverend Laud, *and Pious* Charles *the good.*
The Bishop first, next Charles *to th' block they bring;*
So true it is, No Bishop, soon no King.
For 'twas a maxim frequent them among.
The Miter *down, the* Crown *could not stand long.*

M.D.	W.D.	Festival Days.	☉ ♑	☽ ♉	♄ ♎	♃ ♑	♂ ♈	♀ ♐	☿ ♑	☊ ♉	Planets Mut. Aspect
1	a	Circumc.	21 22	3 16	24	9	10	6	0	9	☽ ☊
2	b	Sun set 3.	22 23	21 47	24	9	10	6	0	9	*cold and*
3	c	56	23 24	5 ♊ 9	24	9	11	7	1	9	*windy*
4	d		24 25	18 21	24	9	12	8	1	9	□ ☉ ♄
5	e	Day 8 h.	25 26	1 ♋ 24	24	10	12	9	2	9	*with snow*
6	f	Epiphany	26 27	14 14	24	10	13	10	2	9	*or rain.*
7	g		27 29	26 54	24	10	14	11	3	8	
8	a	1 p Epiph.	28 30	9 ♌ 21	24	10	14	11	4	8	*cold winter-*
9	b		29 31	21 37	24	11	15	12	5	8	*ly weather*
10	c		0 ♒ 32	4 ♍ 42	24	11	15	14	6	8	*scimus ex-*
11	d	Sun rise 7.	1 33	15 39	24	11	16	14	7	8	*parte*
12	e	52	2 34	27 30	24	11	17	15	8	8	*Frosty, tur-*
13	f	Hilary	3 35	9 ♎ 17	24	12	18	16	9	8	*bulent windy*
14	g		4 36	21 7	24	12	18	17	10	8	
15	a	2 p Epiph.	5 37	3 ♏ 4	24	12	19	18	11	8	☌ ♃ ☿ ☽ ☊
16	b	Day 8 h.	6 38	15 15	24	12	20	19	12	8	△ ♂ ♀
17	c	30.	7 40	27 45	24	12	20	20	14	8	*weather in-*
18	d	———	8 41	10 ♐ 36	24	12	21	21	15	8	*different for*
19	e	———	9 41	23 57	24	13	22	22	17	8	*the season.*
20	f		10 43	7 ♑ 50	24	13	22	23	18	8	
21	g	Agnes	11 45	22 58	24	13	23	24	19	8	✶ ♄ ☿
22	a	3 p Epiph.	12 45	6 ♒ 49	24	13	24	25	21	8	*remiss.*
23	b	Term beg.	13 46	21 48	24	14	24	26	22	8	☍ ♄ ♂
24	c	Sun s 4.29.	14 46	6 ♓ 39	24	14	25	27	23	8	□ ♄ ☿
25	d	C. St. Pau	15 47	21 47	24	14	26	28	25	8	*of cold*
26	e	Polycarp.	16 48	6 ♈ 29	24	14	26	29	26	7	□ ♂ ☿
27	f	Sun rise 7.	17 49	20 55	24	14	27	♑	28	7	*windy.*
28	g	25.	18 50	4 ♉ 59	24	15	27	2	29	7	☽ ☊
29	a	4 p Epiph.	19 51	18 43	24	15	28	3	♒	7	*with snow*
30	b	K. Char. M.	20 52	2 ♊ 7	24	15	29	4	2	7	*or rain.*
31	c	Sun s 4.43	21 52	15 17	24	15	29	5	3	7	

Full Moon the 7 day, 23 min. past 1 in the afternoon.
Last Quarter the 15 day, 31 min. past 5 in the afternoon.
New Moon the 22 day, 11 min. past 10 at night.
First Quarter the 29 day, 11 min. past 2 in the afternoon.

Remarkable Observations.

This Month in old time was set forth in the form of one with two Faces, with the one looking into the old year, and the other into the new, and was called *January* from *Janus*, in honour of whom it came to be so named by *Numa* the second King of the *Romans*. The *Saxons* called *Wolf-monat*, that is *Wolf-month*; because they in this month were in danger to be devoured by Wolves, &c. in this Month some say if the wind continue long in the *South*, then it is like to be plenty of Hay and Grass; and signifies we shall have but little Drought, the ensuing year, &c.

But if it happen that the Wind continue long in the *North* quarter, we shall have but little Snow, but much Frost, and so lest my Pen should freeze to my Fingers ends, I will leave the company of this Clumsy-fisted, Gray-bearded *January*, and leave him to blow his Nails.

The old years past, the new doth now begin,
Put off the old Man, abandon deadly Sin.

If wanting Wings, one may ascend the Skies,
And Phœbus view without an Eagles Eyes.
Then rouse up (Muse) from thy Lethargick brains,
And having first invok'd the God of brains.
Let the grand Subject of thy measures be
No Soul to England like a Monarchy.

M.	D.	Festival Days.	☉	☽	h	4	♂	♀	☿	♃	Planets Mut. Asp.
1	d	Sun r.7.15.	22 53	28 13	24	15	0	6	5	7	Snow or
2	e	Purif V.M.	23 54	10♋57	24	16	0	7	7	7	△ ☉ ♄
3	f		24 55	23 28	24	16	1	8	8	7	sleet.
4	g		25 55	5♌45	24	16	2	9	10	7	
5	a	♃ p.Epiph.	26 56	18 6	24	16	3	10	11	7	
6	b	7 Stars S.	27 56	0♍12	24	16	3	11	13	7	
7	c	3. 21. nig.	28 57	12 11	24	17	4	12	14	7	Mild tem-
8	d	Sun r. 7. 1.	29 57	23 6	24	17	5	14	16	7	perate wea-
9	e	Day 10 h.	0♓58	5♎54	24	17	5	15	18	7	ther for
10	f		1 58	17 44	24	17	6	16	19	7	the season.
11	g		2 58	29 36	24	17	7	17	21	7	☌ ♃ ♀
12	a	Septuages.	3 59	11♏36	24	18	7	18	23	7	
13	b	Term end.	4 59	23 46	24	18	8	19	24	7	△ ♄ ☿
14	c	Valentine.	5 59	6♐14	24	18	9	21	26	6	windy and
15	d		7 0	19 2	23	18	9	22	28	6	various
16	e	Sun r.6.45	8 0	2♑19	23	18	10	23	♓	6	
17	f	Day 10 h.	9 0	16 4	23	18	11	24	1	6	□ ♀ ♃
18	g	30	10 0	0♒19	23	19	11	25	3	6	weather.
19	a	Sexages.	11 0	15 2	23	19	12	26	5	6	brisk gales
20	b		12 0	0♓ 0	23	19	12	27	7	6	of wind,
21	c		13 1	15 19	23	19	13	28	8	6	with rain
22	d	Day 11 h.	14 1	0♈33	23	20	14	♒	10	6	or snow,
23	e	Sun r.6.31	15 1	15 37	23	20	14	1	12	6	✶ ☉ ♂
24	f	St. Matth.	16 1	0♉20	23	20	15	2	14	6	ends the
25	g		17 0	14 40	23	20	16	3	16	6	✶ ♂ ☿
26	a	Quinquag	18 0	28 34	23	20	16	4	8	6	☌ ☉ ☿
27	b		19 0	12♊ 3	23	20	17	5	20	6	✶ ♃ ♀
28	c		20 0	25 11	23	21	8	6	22	6	month.
29	d	Ash-wednes.	21 0	8♋58	23	21	8	7	24	6	✶ ♃ ☉

Full Moon the 6 day, 6 min. past 7 in the morning.
Last Quarter the 14 day, 20 min. past noon.
New Moon the 21 day, 4 min. past 8 in the morning.
First Quarter the 28 day, 56 min. past 1 in the morning.

Remarkable Observations.

This Month was also brought in by *Numa*, and named by him *February*, from *Februus* (otherwise called *Pluto*) in Honour of whom the Heathens used to offer great Sacrifices this Month, and to perform Vows for the Souls of the Dead. The *Saxons* called this Month, *Sprout-Kele*; because of the *Cole-wort* (which they called *Kele*) in this month yeilded young Sprouts for their Nourishment, &c.

The Ancients have observed, that if Floods happen in this Month, we shall have plenty of Hay and Grass the year ensuing.

But if this Month be dry and frosty, its conjectured a great want of Hay and Grass will happen, which will cause Hay to be very dear, which will be ill for the poor Husbandman, &c.

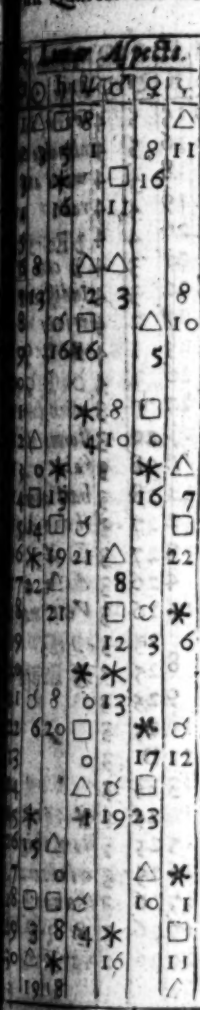
The Spring coming on, thy Blood doth increase;
Of Sin purge thy Soul, and with God make thy peace.

March hath XXXI Days.

It is the Image of that Domination,
By which Jenovah *rules the whole Creation;*
Angels nor Saints, do in his Kingdom share,
God is Sole-monarch, they but Subjects are.

M.D.	W.D.	Festival Days.	☉ ♓	☽ ♋	♄ ♎	♃ ♑	♂ ♉	♀ ♒	☿ ♍	☊ ♉	Planets Mus. Aff.
1	d	David	22 0	20 23	23	21	19	9	26	6	This mon
2	e	Chad.	22 59	2 ♌ 52	23	21	20	10	28	6	begins wi
3	f	Sun s.5.47.	23 59	15 2	23	21	20	11	♈	6	indifferent
4	♋	1 S. Lent	24 59	27 6	23	21	21	12	2	5	good wea-
5	a		25 58	9 ♍ 3	23	21	22	13	4	5	△ ♃ ♂
6	b		26 58	20 56	23	22	22	15	6	5	ther con-
7	c	Sun r. 6. 5.	27 57	2 ♎ 48	23	22	23	16	7	5	dering the
8	d		28 57	14 39	23	22	24	17	9	5	season, but
9	e	Equ. Day	29 56	26 33	23	22	24	18	11	5	between the
10	f	and Night	0 ♈ 56	8 ♏ 30	23	22	25	19	13	5	☽ ☊
11	♋	2 S. Lent.	1 55	20 36	23	22	26	21	15	5	□ ♄ ♃
12	a	Gregory	2 54	2 ♐ 51	23	22	26	22	17	5	11 and 23
13	b	7 Stars set	3 54	15 22	22	23	27	23	19	5	△ ♄ ♀
14	c	at 11–28.	4 53	28 11	22	23	28	24	20	5	day expect
15	d	Night.	5 52	11 ♑ 22	22	23	28	25	22	5	☍ ♄ ☿
16	e		6 52	24 58	22	23	29	26	24	5	□ ♃ ☿
17	f	D.12.h.30.	7 51	9 ♒ 3	22	23	♊	28	25	5	cold.
18	♋	3 S. Lent	8 50	23 33	22	23	1	29	27	5	Apertio
19	a		9 49	8 ♓ 26	22	23	1	♓	28	5	portarum
20	b		10 48	23 36	22	23	2	1	29	5	high winds
21	c	Sun r.5.37.	11 47	8 ♈ 5	22	24	2	2	♉	5	□ ♂ ♀
22	d		12 46	24 1	22	24	3	3	1	5	and storm
23	e		13 45	8 ♉ 55	22	24	3	5	2	4	☽ ☋
24	f	Day 13. h.	14 44	23 30	22	24	4	6	3	4	weather
25	♋	Ann. B. V.	15 44	7 ♊ 36	22	24	5	7	4	4	with some
26	a		16 42	21 15	21	24	5	8	4	4	snow or
27	b		17 40	4 ♋ 28	21	24	6	9	5	4	rain.
28	c	Sun r 5.22	18 39	17 15	21	24	7	10	5	4	
29	d		19 38	29 45	21	25	7	12	5	4	close cloudy
30	e		20 37	11 ♌ 59	21	25	8	13	5	4	weather.
31	f	Sun s.6.44.	21 35	24 2	21	25	9	4 ♑		4	☍ ☊ ♄

ll Moon the 7 day, 19 min. past 1 in the morning.
t Quarter the 15 day, 13 min. past 1 in the morning.
w Moon the 21 day, 58 min past 4 in the afternoon.
st Quarter the 28 day, 55 min. past 2 in the afternoon.



Remarkable Observations.

March, Martius, is so called *a Marte* of *Mars*, the God of Battel, to whom this Month was dedicated by the Ancient *Romans*; the *Saxons* called it *Lenâ-monat*, that is Length-month, or because this Month the days began to exceed the Nights in Length; and hence also cometh the name of *Lent*, because the most part of that Season falleth in this Month most commonly, &c.

If this Month prove warm and dry, it naturally signifieth a plenteous year; but if Floods, Frost and Cold weather happen in this Month, it is a sign of scarcity of Corn, especially Rye and Wheat, &c.

Set Pumpions *and* Citrons, March *counselleth so.*
With Rosemary, Sage, *and other herbs too.*
Plant Goodness, keep it still in thy heart,
And God his good blessings to thee will impart.

The Ancients did a Monarchy prefer,
Made all their Gods submit to Jupiter.
And when Affairs and Nations first began,
Princes decrees were the only Laws of man.

M. D.	W. D.	Festival Days.	☉ ♈	☽ ♍	♄ ♎	♃ ♍	♂ ♊	♀ ♓	☿ ♉	☊ ♉	Planets Mar.
1	♉	S. Lent.	22 34	6 0	21	25	9	15	5	4	Warm, in
2	a	Day 13.	23 33	17 51	21	25	10	16	5	4	clinable t
3	b	and 30.	24 31	29 41	21	25	11	18	4	4	wind and
4	c		25 30	11 ♎ 33	21	25	11	19	4	4	rain.
5	d		26 28	23 19	21	25	12	20	4	4	☽ Eclips
6	e	Sun r. 6. 56.	27 27	5 ♏ 20	21	25	12	21	3	4	☽ caus
7	f		28 25	17 38	21	25	13	22	3	4	Indifferen
8	♉	Palm Sun.	29 23	29 54	20	25	14	23	2	4	windy
9	a	Day 14. h.	0 ♉ 22	12 ♐ 22	20	25	14	25	1	4	☌ ♃ ☿
10	b		1 20	25 3	20	25	15	26	1	4	♂ ☉ ☿
11	c		2 18	8 ♑ 0	20	25	16	27	♈	3	with sou
12	d		3 17	21 11	20	26	16	28	29	3	storms of
13	e		4 15	4 ♒ 42	20	26	17	♈	28	3	rain or
14	f	Sun r. 7. 10.	5 13	18 34	20	26	18	1	28	3	hail abou
15	♉	Easter day	6 11	2 ♓ 48	20	26	18	2	27	3	the 11 da
16	a		7 9	17 24	20	26	19	3	27	3	□ ♃ ☿
17	b	Day 14.	8 8	1 ♈ 13	20	26	20	4	26	3	△ h ♂
18	c	and 30	9 6	7 13	20	26	20	5	26	3	Vent. ma
19	d		10 4	2 ♉ 15	20	26	21	7	25	3	☽ ☊
20	e		11 2	17 10	20	26	22	8	25	3	☉ Eclips
21	f		12 0	1 ♊ 45	20	26	22	9	25	3	
22	♉	Low-sund	12 58	15 58	19	26	23	10	25	3	
23	a	St. George	13 56	29 45	19	26	23	11	D	3	
24	b	Day 15 h.	14 53	13 ♋ 3	19	26	24	13	25	3	
25	c	St. Mark	15 51	25 56	19	26	25	14	25	3	✱ ♂ ☿
26	d	Sun r. 7. 31	16 49	8 ♌ 27	19	26	25	15	25	3	stormy bigi
27	e		17 47	21 0	19	26	26	16	25	3	winds and
28	f		18 45	2 ♍ 40	19	26	27	17	26	3	the month.
29	♉	2 p. Eaſt.	9 42	14 33	19	26	27	19	26	3	☌ h ☿
30	a	Sun r. 4. 22	20 40	26 20	19	26	28	20	26	2	□ ♃ ☿

Moon the 5 day, 36 min. past 6 in the afternoon.
Quarter the 13 day, 9 min. past 11 in the morning.
Moon the 20 day, 27 min. past 1 in the morning.
Quarter the 27 day, 20 min. past 5 in the morning.

Lunar Aspects.						
☉	♄	♃	♂	♀	☿	
			□	8	△	
		*	6	21		
		15				
	☌		△			
8	18	□	0		8	
6		4			20	
		△		△		
		16		11		
	*		8			
△	15		4	□	△	
12	□			2	11	
□	22	8		*	□	
23		9	△	14	15	
	△		22		*	
*	3				16	
7		△	□			
		15	3	☌		
	8	□	*	4	☌	
☌	5	15	6		13	
14		*				
		16		*		
	△		☌	15	*	
	7		13	□	16	
*	□			23	□	
4	12	☌			23	
□	*	1		△		
18	20		*	14	△	
			11		9	
△						
10		*	□			

Remarkable Observations.

Some saith this Month is called *April*, from ἀφρὸς, *spuma*; *ex qua ortam fuisse venerem poetæ opinantur*; But *Varro* more truly deriveth it, *ab Aperiendo*, from opening, because all things in this Month begin to open and shew in the Flower, so *Ovid*, *Aprilem memorat ab apto tempore dictum.*

The *Saxons* called it *Oster-monat*, from the easterly Winds, which more usually blow this Month; and hence the Feast of *Easter* seemeth to take its Name, it being for the most part kept in this Month.

If in this Month of *April* there be much Rain, Corn will be very good; but if this Month be dry and windy, it will be a great Impediment to Corn and Grass, &c.

The pores are open, and strength doth now renew;
And learned men may Physick give to you.
But while you seek you bodies to preserve,
Let not your Souls for food eternal starve.

The rational Soul performs a Princes part,
She rules the body by monarchick Art.
Poor Cranes, *and silly* Bees, *(with shivering wings)*
Observe their leaders, and obey their Kings.

W.D.	W.D.	Festival Days.	☉ ♉	☽ ♏	♄ ♏	♃ ♍	♂ ♊	♀ ♈	☿ ♈	☊ ♉	Planets Mot. A.
1	b	Ph & Jac.	21 38	8 12	19	26	29	21	27	2	
2	c	Sun ſ. 7. 41.	22 36	20 6	19	26	29	22	28	2	Term be
3	d	Day 15 h.	23 33	2 ♎ 7	19	26	♋	23	28	2	☽ cum ☊
4	e	30.	24 31	14 16	19	♑	1	25	29	2	Fair and
5	f		25 28	27 37	19	26	1	26	♉	2	□ ♃ ♀
6	♁	3 p. Easter	26 26	9 ♐ 10	19	26	2	26	1	2	△ ☉ ♃
7	a		27 24	21 54	19	26	2	28	2	2	pleaſant
8	b		28 21	4 ♑ 55	19	26	3	29	3	2	
9	c		29 19	18 7	19	26	4	♉	4	2	✱ ♂ ♀
10	d	Sun r. 4. 6	0 ♊ 16	1 ♒ 29	18	26	4	2	5	2	inclined t
11	e		1 13	14 56	18	26	5	3	6	2	brisk wind
12	f		2 11	28 54	18	26	6	4	7	2	perhaps
13	♁	4 p. Easter	3 9	12 ♓ 56	18	26	6	5	8	2	ſome
14	a	Day 16 h.	4 6	27 11	18	26	7	7	9	2	✱ ♂ ♀
15	b	Sun ſ. 8. 1.	5 3	12 ♈ 56	18	26	7	8	11	2	ſtorms of
16	c		6 1	26 15	18	26	8	9	12	2	
17	d		6 58	10 ♉ 52	18	26	9	10	13	2	☽ cum ☊
18	e		7 55	25 18	18	26	9	11	15	1	rain and
19	f		8 53	9 ♊ 54	18	26	10	13	16	1	thunder.
20	♁	5 p. Eaſter	9 50	24 2	18	26	11	14	18	1	
21	a		10 47	7 ♋ 47	18	26	11	15	19	1	
22	b		11 45	21 6	18	26	12	16	21	1	
23	c		12 42	4 ♌ 10	18	26	13	17	23	1	fair and
24	d	Aſcen. day	13 39	16 44	18	26	13	19	24	1	hot, conti-
25	e		14 36	28 54	18	25	14	20	21	1	△ ♃ ♀
26	f	Nat. Auth.	15 34	10 ♍ 54	18	26	15	21	28	1	nuing for
27	♁	6 p. Eaſter	16 31	22 43	18	26	15	22	♊	1	ſeveral days
28	a	Term end	17 28	4 ♎ 32	18	25	16	23	1	1	△ ☉ ♄
29	b	K. Ch. II.	18 25	16 20	18	25	16	25	3	1	△ ♃ ♀
30	c	N. and R.	19 22	28 16	18	25	17	26	5	1	☽ cum ♉
31	d	Sun ſ. 8. 16.	20 19	9 ♏ 19	18	25	18	27	7	1	□ ♄ ♂

ll Moon the 5 day, 50 min. past 7 in the morning.
ast Quarter the 12 day, at 6 in the Afternoon:
ew Moon the 19 day, 29 min. past 10 in the morning
ast Quarter the 26 day, 20 min. past 10 at Night.

Lunar Aspects.							
	☉	☽	♄	♂	♀	☿	
1		♂					
2		20	□	△	8	8	
3			12	20	4	16	
4			*				
5		20		22			
6		*					
7			18	8	△	△	
8				22	13	20	
9	△	□	♂				
10		22	1	15	□	□	
11		△				1	6
12	□	6		△	*	*	
13			*	12	10	13	
14	*		22	□			
15		13	8		17		
16			11	□	*	♂	
17				0	20	23	♂
18	♂			△			6
19		22	△	2			
20			15				
21			□		♂	*	
22			18	8	7	14	*
23	*			8			0
24		18	*			□	□
25			2			4	19
26	□				*		
27		22		△	7	△	△
28				6		0	18
29	△	♂	□	□			
30		4	3	18	0		
31					△		

Remarkable Observations.

Romulus the first King of the *Romans* having a great desire, and willing that the City of *Rome* should be increased with Inhabitants, orders and distinguished the People into *Majores* and *Minores*, and ordained this Month should have 31 days, calling it *May*, *a Majoribus Populi*, to whom it was dedicated. Some say it was called *May*, from the Goddess *Maja* (the Mother of *Mercury*) to whom the Heathens used to Sacrifice in this Month, &c.

If this Month prove dry with *North* Winds, it will be a good year for the Husbandman, for it presageth a plenteous year of Corn and Hay; but if a Flood happen in *May*, Sheep will be in great danger to be Rotten, &c.

Now Earth bemantled is with Flowers that abound,
And Birds record their Notes, with sweet and pleasing sound.
Lift up thy heart to God, with thanks for blessing sent,
Let not his gifts unthankfully be spent.

June hath XXX Days.

The Soips in tempests by the Winds are tost,
And fond Conceits do trouble People most:
Through Ignorance one sin begets another,
And every Schismatick soon finds his brother.
But water quencheth an inkindled Fire,
And Justice pays the bloody home their hire.

M.D.	W.D.	Festival Days.	☉ ♊	☽ ♏	♄ ♎	♃ ♑	♂ ♋	♀ ♉	☿ ♊	☊ ♉	Planets Mut. Asp.
1	c		21 17	22 37	18 25	18	28	9	1		The month
2	f	Sun s.3.43.	22 14	5 ♐ 12	18 25	19	♊	11	1		beginswith
3	G	Whit-sun.	23 11	18 2	18 25	20	1	13	1		turbulent
4	a	Whitmon	24 8	1 ♑ 12	18 25	20	2	15	1		weather,
5	b	Boniface	25 5	14 33	18 25	21	3	17	1		△ ♄ ☿
6	c		26 2	28 8	18 25	21	4	20	0		perhaps
7	d		27 0	11 ♒ 52	18 25	22	6	22	0		with some
8	e		27 56	25 43	18 24	23	7	24	0		lightning
9	f	Sun r.3.41	28 53	9 ♓ 40	18 24	23	8	26	0		and thun-
10	G	Tr. Sund.	29 51	23 41	18 24	24	9	28	0		☍ ♃ ♂
11	a	St.Barnab	0 ♋ 48	7 ♈ 44	18 24	25	10	♋	0		☌ ☉ ☿
12	b	Longest d	1 45	21 52	Di 24	25	12	3	0		der.
13	c	is 16 h. 23	2 42	6 ♉ 3	18 24	26	13	5	0		☽ cum ☊
14	d	Corp. Chr.	3 39	20 15	18 24	26	14	7	0		Thunder
15	e	Term beg.	4 36	4 ♊ 25	18 24	27	15	9	0		and Rain,
16	f		5 33	18 28	18 24	28	16	11	0		Hot and
17	G		6 30	2 ♋ 19	18 23	28	18	13	0		△ ♃ ♀
18	a	Sun r.3 42	7 27	15 52	18 23	29	19	16	0		pleasant
19	b		8 24	29 7	18 23	♌	20	18	0		□ ♄ ☿
20	c		9 21	12 ♌ 2	18 23	1	21	20	0		with curi-
21	d	Sun s.8.17.	10 18	24 35	18 23	1	23	22	0		☍ ♃ ☿ ☊
22	e		11 15	6 ♍ 50	18 23	2	24	24	0		winds in-
23	f	D.16.h.30	12 12	18 51	18 23	2	25	26	0		clined to
24	G	St. John B.	13 9	0 ♎ 40	18 23	3	26	28	♈		hail, rain,
25	a		14 6	12 7	18 22	3	27	♌	29		& thunder,
26	b		15 3	24 13	18 22	4	29	1	29		☽ cum ☋
27	c		16 1	6 ♏ 7	18 22	5	♋	3	29		towards the
28	d		16 58	18 13	18 22	5	1	5	29		☌ ♂ ☿
29	e	St. Peter	17 53	0 ♐ 36	18 22	6	2	7	29		□ ☉ ♄
30	f	and Paul	8 52	13 19	18 22	7	4	8	29		end of the month.

Full Moon the 3 day, 7 min. past 10 at night.
Last Quarter the 10 day, 20 min. past 11 at night.
New Moon the 17 day, 58 min. past 7 at night.
First Quarter the 25 day, 18 min. past 4 in the afternoon.

Day	Aspects						
1			*			8	
2		*	5			12	8
3		23					13
4	10						
5		□		8			
6		6	18	11	△		
7		△				12	△
8	△	10				□	21
9	4					21	
10	□		*	△			□
11	11	8	1	1	*		10
12	*	17	□	□		6	*
13	18		4	7			22
14			△	*			
15			7	11	☌		
16		23			20		
17	☌						☌
18			8				
19		4	14	☌			☌
20		*		1	*		
21		11			20		
22	*						
23			△				*
24			8	*	□		18
25			□	5	15		
26		12	20	□	△		□
27	△			21	10		17
28	22		*				
29			8	△			△
30		*		12			14

Remarkable Observations.

June, as *Ovid* sheweth, was so named, *à Junioribus populi*; but others fetch it from *Juno*, because of the many houours done to her at this Season; others hold it is called *June* from *Junius Brutus*, the Author of the *Romans* Liberty, who was made Consul this Month, and on the first day performed holy Rites to the Goddess *Carne*.

The *Saxons* called this Month *VVeyd-monas*, of *VVeyden* to feed; because in this Month they used to turn their Cattel to graze in the Field, &c.

If this Month be inclined to moderate Rain, it signifieth a fruitful year, but much drith in this Month, giveth cause to much fear the contrary, &c.

Hot spice is naught, strong wines inflame,
Swoet meats are worse, much sleep the same.
But sinful riot worst of all, is deem'd,
Lose not thy soul, which Christ hath now redeem'd.

July hath XXXI Days.

A Monarchy, that Politick simple state,
Consists in unity (inseperate,
Pure and Intire) a Government that stands,
when others fall, touched but with levelling hands:
So natural, and with such skill indu'd,
It makes one body of a multitude.

M.D.	W.D.	Festival Days.	☉ ♋	☽ ♐	♄ ♎	♃ ♑	♂ ♌	♀ ♋	☿ ♌	☊ ♈	Planet Mo.
1	☾	3 p. Trin.	19 49	26 23	18	22	7	5	10	29	
2	a	Sun r. 3.52	20 56	9 ♑ 29	18	22	8	6	12	29	8 ☉ ♃
3	b		21 43	23 43	18	21	9	7	13	29	
4	c	Term end	22 40	7 ♒ 36	18	21	9	9	15	29	Fair and
5	d	Sun s. 8. 5.	23 38	21 48	18	21	10	10	16	29	temperate
6	e		24 35	6 ♓ 4	18	21	10	11	18	29	✱ ♄ ☿
7	f		25 32	20 20	18	21	11	12	19	29	
8	☾	4 p. Trin.	26 29	4 ♈ 31	18	21	12	13	21	29	with some
9	a	Day 16 h.	27 26	18 38	18	21	12	15	22	29	showers of
10	b		28 23	2 ♉ 39	18	21	13	16	24	29	☽ cum ♌
11	c		29 21	16 33	18	20	14	17	25	29	
12	d		0 ♌ 18	0 ♊ 24	18	20	14	18	26	29	□ ♄ ☿
13	e	Margaret	1 15	14 7	18	20	15	20	28	29	8 ♃ ☿
14	f	Sun s. 7.52	2 12	27 44	19	20	15	21	29	28	Rain with
15	☾	5 p. Trin.	3 9	11 ♋ 11	19	20	16	22	♍	28	little al-
16	a		4 7	24 44	19	20	17	23	1	28	teration th
17	b		5 4	7 ♌ 23	19	20	17	25	2	28	about
18	c	Day 15 h.	6 1	20 6	19	20	18	26	3	28	the 23 day
19	d	♒	6 59	2 ♍ 34	19	19	19	27	4	28	✱ ♄ ♂
20	e		7 56	14 44	19	19	19	28	5	28	
21	f		8 53	26 44	19	19	20	29	6	28	
22	☾	6 p. Trin.	9 51	8 ♎ 34	19	19	20	♌	7	28	□ ♄ ♃
23	a		10 48	20 20	19	19	21	2	8	28	☽ cum ♉
24	b		11 46	2 ♏ 10	19	19	22	3	8	28	then expe-
25	c	St. James	12 43	14 2	19	19	22	4	9	28	a conside-
26	d		13 40	26 7	19	19	23	6	10	28	rable Mu-
27	e		14 38	8 ♐ 29	19	19	24	7	10	28	tation of
28	f	Day 15 h.	15 35	21 12	20	19	24	8	11	28	the air, per-
29	☾	7 p. Trin.	16 33	4 ♑ 22	20	18	25	9	11	28	haps wind
30	a		17 31	18 0	20	18	26	11	12	28	thunder
31	b		18 28	1 ♒ 57	20	18	26	12	12	28	and rain.

ll Moon the 3 day, 41 min. past 8 in the morning.
t Quarter the 10 day, 10 min. past 4 in the morning.
w Moon the 17 day, 15 min. past 7 in the morning.
st Quarter the 25 day, 36 min. past 8 in the morning.

Remarkable Observations.

This Month of old time, was called *Quintilis*, because it was the 5th from *March*; but it lost that name in the days of *Julius Cæsar*, and in honour of him, born on the fourth Ides thereof, was called *July*, as both *Macrobius* and *Censorinus* shew; The *Saxons* called it *Hey-monat*, from their Hey-harvest being in this month.

If in this month the Wind blow *North* or *East*, its accounted a good time to cut down your Grass (for to make good Hay) for when the Wind turned into the *South* or *West*, and the Air wax hot, then you may expect a Thunder-storm, &c.

Therefore I say, beware in time,
And make your Hay, whilst the Sun doth shine.
For the Grass that grows to morrow's Hay,
And man that's now, as soon is Clay.

A Monarchy more quickly doth attain
The end propos'd, for 'tis the single brain
That ripens Counsel, and concealeth best
Princely designs, till Deeds proclaim 'em blest.
Whilst numerous Heads are rarely of one mind,
Slow in their motion, lowder than the wind.

W. D.	D.	Festival Days	☉	☽	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑
1	f	Lammas	19	26	16	20	20	18	27	13	12	28	☌	☉
2	g	Sun r.7.21.	20	23	0	♓	57	20	18	27	14	12	27	☐
3	a		21	21	15		39	20	18	28	15	12	27	
4	b		22	19	0	♈	20	20	18	29	17	℞	27	
5	c	8 p. Trin.	23	16	14		55	20	18	29	18	12	27	
6	d	D. 14 & 30.	24	14	29		36	20	18	♍	19	11	27	
7	e		25	12	13	♉	24	20	18	1	20	11	27	☽
8	f		26	10	27		17	20	18	1	22	11	27	☌
9	g		27	7	10	♊	56	21	17	2	23	10	27	☿
10	a	Lawrence	28	5	24		23	21	17	3	24	10	28	☌
11	b		29	3	7	♋	35	21	17	3	25	9	27	
12	c	9 p. Trin.	♍	1	20		41	21	17	4	27	8	27	
13	d	Day 14 h.	0	59	3	♌	32	21	17	4	28	7	27	
14	e		1	57	16		1	21	17	5	29	7	27	
15	f		2	55	28		38	21	17	6	♍	6	27	☌ ☽
16	g		3	53	10	♍	54	21	17	6	1	5	27	☍ ☉
17	a	Sun r.6.52	4	51	22		58	21	17	7	3	4	27	☽ ☌
18	b		5	49	4	♎	55	21	17	8	4	3	27	☍ ☿
19	c	10 p. Trin	6	47	16		46	21	17	8	5	2	27	
20	d		7	45	28		34	21	17	9	6	1	27	☽ ☌
21	e	Day 13 h.	8	43	10	♏	21	21	17	10	8	1	26	☌
22	f		9	41	22		17	21	17	10	9	♎	26	☌
23	g		10	40	4	♐	21	22	17	11	10	29	26	☍ ☿
24	a	S Bartho	11	38	16		40	22	17	11	11	29	26	☍ ☉
25	b	Sun r.6.28	12	36	29		21	22	17	12	13	29	26	☌ ☿
26	c	11 p. Trin	13	34	12	♑	16	22	17	13	14	29	26	☌
27	d		14	33	26		0	22	17	13	15	D	26	☌ ☍
28	e	Day 13 h.	15	31	10	♒	1	22	17	14	17	29	26	△ ☌
29	f	Decol. J.B	16	29	24		28	22	17	15	18	29	26	△ ☉ ☿
30	g	Sun r.5.33	17	28	9	♓	17	22	17	15	19	♍	26	☌
31	a		18	26	24		19	23	17	16	20	1	26	☌

ull Moon the 1 day, 27 min. past 5 in the afternoon.
ast Quarter the 8 day, 56 min. past 9 in the morning.
ew Moon the 15 day, 8 min. past 9 in the afternoon.
irst Quarter the 24 day, 21 min. past 1 in the morning.
ull Moon the 31 day, 58 min. past 1 in the morning.

Remarkable Observations.

This Month is called *August* from *Augustus Cæsar*, who began his Consul-ship in this Month, and put a period to the Civil Wars. It was before called *Sextilis*, as being the sixth Month from *March*. The *Saxons* called it *Arn-monat*, which signifieth Harvest-month.

Now gather thy fruits, God send thee good store;
Remember to give some part to the poor.
Lend them that want, the Almighty favoureth such,
And in due time repays them double as much.

September hath XXX Days.

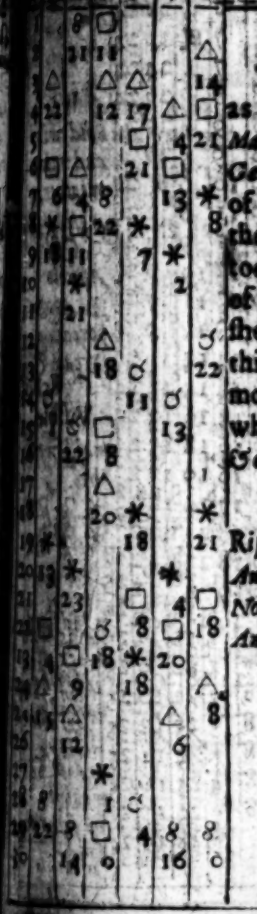
These men who fly from peace, are too too blame;
Who seek their own harms, they deserve the same.
And you, whose calms makes neighbours storms seem sere;
Try you the tide, before you trust the shore.
Now Physick proper makes sick bodies sound,
So will Religion cleanse soul errors wound.

M.D.	W.D.	Festival Days.	☉ ♍	☽ ♈	♄ ♎	♃ ♑	♂ ♍	♀ ♍	☿ ♍	☊ ♈	Planet Mot.
1	f	Sun s.6.23	19 25	9 23	23	17	17	21	2	26	△ ♃
2	☉	12 p. Trin.	20 23	24 22	23	17	17	23	2	26	☽ cum
3	a		21 20	9 ♉ 7	23	Di	18	24	4	26	Cloudy and
4	b		22 21	23 33	23	17	19	25	5	26	windy.
5	c	Sun r.5.45	23 19	7 ♊ 36	23	17	19	26	6	26	
6	d		24 18	21 18	23	17	20	28	7	26	
7	e		25 17	4 ♋ 38	23	17	21	29	9	26	
8	f	N.V. Mary	26 15	17 41	23	17	21	♎	10	26	
9	☉	13 p. Trin.	27 14	0 ♌ 29	24	17	22	2	12	25	wind and
10	a		28 13	13 2	24	17	22	3	13	25	rain.
11	b		29 12	25 25	24	17	23	4	15	25	
12	c	Equal day	0 ♎ 11	7 ♍ 35	24	17	24	5	17	25	△ ♃ ☿
13	d	and night	1 10	19 39	24	17	24	6	19	25	☽ Apogæ.
14	e	Ex. Crucis	2 9	1 ♎ 37	24	17	25	8	20	25	High
15	f		3 8	13 20	24	17	26	9	22	25	winds
16	☉	14 p. Trin.	4 7	25 29	24	17	26	10	24	25	☽ cum ☿
17	a		5 6	7 ♏ 9	24	17	27	11	26	25	with rain
18	b		6 5	19 2	25	17	28	13	28	25	☌ ♂ ☿
19	c	Sun s.5.48	7 4	1 ♐ 1	25	17	28	14	♎	25	er hail.
20	d		8 3	13 8	25	17	29	15	1	25	clear air.
21	e	St. Matth.	9 2	25 29	25	17	29	16	3	25	Tot month
22	f	Sun r.6.20	10 2	7 ♑ 6	25	17	♎	18	5	25	□ ♃ ☿
23	☉	15 p. Trin.	11 1	20 55	25	17	1	19	7	25	ends with
24	a		12 0	4 ♒ 30	25	17	2	20	9	25	wind and
25	b		13 0	18 21	25	18	2	21	10	25	rain, and
26	c		13 59	2 ♓ 40	26	18	3	23	12	25	variable
27	d	Day 11 h.	14 59	17 25	26	18	3	24	14	25	Perigæ. ☽
28	e		15 58	2 ♈ 27	26	18	4	25	16	24	☌ ☉ ☿
29	f	St. Michael	16 58	17 42	26	18	[illegible]	26	17	24	☽ ♄ ☿
30	☉	16 p. Trin.	17 57	2 ♉ 55	26	18	5	28	19	24	□ ☉ ♃ ☿

mention

Quarter the 6 day, 50 min. past 5 in the afternoon.
Moon the 14 day, 11 min. past 1 in the afternoon.
Quarter the 22 day, 12 min. past 4 in the afternoon.
Moon the 29 day, 46 min. past 10 in the morning.

Aspects.



Remarkable Observations.

This Month is called *September*, as being the seventh month from *March*; and was sometimes called *Germanicus*, from *Germanicus* the Son of *Drusus*, who eagerly defended the *Romans* against the *Germans*, and took order that the unburied Relicks of the Legions of *Quintilius Varus*, should be buried. The *Saxons* called this month *Gerst-monat*, that is Barly-month, from their Barly-harvest, which most times is in this month, &c.

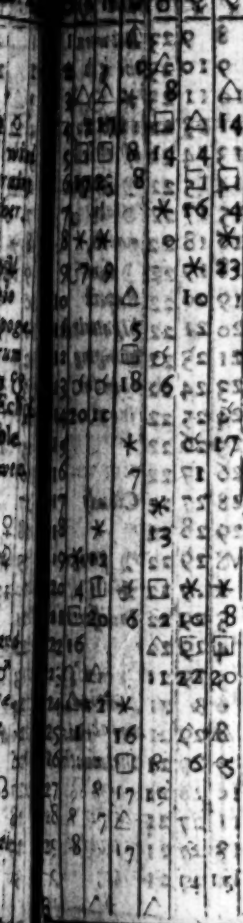
Ripe Fruits, but sound, in measure eat,
And spices you may mingle with your meat.
Now Dog-days gone, both purg and bleed,
And Physick take, if that you need.

The Heavens on every side enclosed be
That Pilots Sun, Moon nor Stars can see;
Tho the Heavens above the Heaven hath us rare,
Yet must not we dismayed be therefore,
Tyrall quackish elfe, Time turns the longest days,
Black storms and Fogs are altered by Phœbus rays.

M. D.	W. D.	Festival Days.	☉	☽	☿	♃	♂	♀	♄	♅	♆	♇	Aspects.
1	a		18 37	17 59	26	18	6	29	21	24			
2	b		19 56	2 ♏ 43	26	18	7	♏	22	24			
3	c	Sun ſ. 18	20 55	17 14	26	18	7	1	24	24			
4	d	Day 10 h.	21 56	0 ♐ 57	26	18	8	3	26	24	☌ ♄		
5	e	30	22 55	14 23	27	18	9	4	27	24	Cold		
6	f		23 55	27 25	27	18	9	5	29	24	and rain		
7	g	☽ 17 p. Trin	24 55	10 ♑ 8	27	19	10	6	♏	24	weather.		
8	a		25 55	22 30	27	19	11	8	2	24			
9	b	Dionyſius	26 55	4 ♒ 39	27	19	11	9	4	24	☌ ☉ ☍		
10	c		27 55	16 42	27	19	12	10	6	24	Aprilis		
11	d		28 55	28 36	27	19	12	11	7	24	☽ Apoge.		
12	e		29 55	10 ♓ 20	27	19	13	13	9	24	portarum		
13	f	Sun riſe 7.	♏ 55	22 17	28	19	14	14	10	24	☽ con ☿		
14	g	☽ 18 p. Trin	1 55	4 ♈ 8	28	19	14	15	12	24	☉ Ecl.		
15	a		2 55	16 3	28	20	15	16	13	24	Viſible.		
16	b		3 55	28 3	28	20	16	18	15	24	moiſt wea-		
17	c		4 55	10 ♉ 11	28	20	16	19	17	23	ther.		
18	d	St. Luke	5 55	22 27	28	20	17	20	18	23	✶ ♃ ♀		
19	e		6 55	4 ♊ 56	28	20	18	21	20	23	✶ ♃ ♀		
20	f	Sun ſ. 4 46	7 56	17 38	8	20	18	23	21	23	✶ ☿		
21	g	☽ 19 p. Trin	8 56	0 ♋ 35	28	20	19	24	23	23			
22	a		9 56	13 53	29	21	20	25	24	23	windy and		
23	b	Term beg.	10 56	27 33	9	21	20	26	26	23	□ ♃ ☌		
24	c		11 57	11 ♌ 35	29	21	21	28	27	23	☽ perige.		
25	d	Cr. & Criſ.	12 57	26 3	9	21	22	9	29	23	variable		
26	e		13 58	10 ♍ 55	9	21	22	✓	✓	23	☽ ☍ ☿		
27	f		14 58	25 53	9	21	23	1	1	23	☽ con ☌		
28	g	☽ St. S. &	15 59	11 ♎ 3	9	21	24	3	3	23	weather		
29	a	Day 9 h.	16 59	26 11	29	22	24	4	4	23	for ſeven		
30	b		18 0	11 ♏ 4	29	22	25	5	6	23	days.		
31	c		19 0	25 36	9	22	26	6	7	22			

Last Quarter the 6 day, 1 min. past 5 in the morning.
New Moon the 14 day, 6 min. past 7 in the morning.
First Quarter the 22 day, 17 min. past 4 in the morning.
Full Moon the 28 day, 22 min. past 8 at night.

Lunar Aspects.							
☉	☽	♄	♂	♀	☿		
1			△				
2							
3	△	△		8		△	
4	2	17		□	△	14	
5	□	□	8	14	4		
6	17	23	8		□	□	
7				*	16	4	
8	*	*				*	
9	7	9			*	23	
10			△		10		
11			5				
12			□				
13	☌	☌	18	6			
14	20	10					
15			*		☌	17	
16			7		1		
17				*			
18		*		13			
19	*	12					
20	4	□	*	□	*	*	
21	□	20	6	2	10	8	
22	16			△	□	□	
23		△		11	22	20	
24	△	12	*				
25	1		16		△	8	
26			□	8	6	5	
27		8	17	15			
28	8	7	△				
29	8		17			8	
30					14	15	
31		△		△			



Remarkable Observations.

This Month is called *October*, because it is the eighth month from *March*, and was sometime called *Domitianus*, from the name of *Domitian* the Emperor, the Senate so appointing; but this lasted not long, for they within sometime after, judged it to be but an unlucky name, both in Coyn and Kalender.

The *Saxons* called this month *VVinmonat*, that is, Wine-month; because in this month they had Wines brought them from other Countries, &c.

October *warns warm Cloaths provide,*
'Gainst VVinters furious rage:
And Grace invites, repent betimes,
Gods furious wrath to swage.

November hath XXX Days.

Now old Chronos, angry Mars provokes,
when clouds appear, wise men put on their clokes:
And if by others harms, we shun our own,
Our chiefest part of wisdom then is known.

M. D.	W. D.	Festival Days.	☉ ♏		☽ ♋		♄ ♎	♃ ♑	♂ ♎	♀ ♐	☿ ♐	☊ ♈	Planets Mus. Asp.
1	d	All Saints	20	1	9	40	29	22	26	8	9	23	Between
2	e	All Souls	21	1	23	16	♏	22	27	9	10	23	the 5th ☉
3	f		22	2	6	♌ 22	0	22	28	10	11	23	✱ ☉ ☿
4	g	21 p. Trin.	23	3	19	26	0	23	28	11	13	22	12th day
5	a	Sun s. 4.20.	24	4	1	♍ 27	0	23	29	13	14	22	of this
6	b	Leonard	25	4	13	29	0	23	♏	14	15	22	☽ Apoga.
7	c		26	5	25	29	1	23	1	15	17	22	☌ ♄ ♂
8	d	Da. 8 h. 30.	27	6	7	♎ 18	1	23	1	16	18	22	month,
9	e	Sun r. 4.14	28	7	19	7	1	23	2	18	19	22	☽ cum ☊
10	f	Martin P.	29	8	0	♏ 57	1	24	2	19	20	22	Expect
11	g	22 p. Trin.	0 ♐	8	12	51	1	24	3	20	21	22	high wind
12	a		1	9	24	53	1	24	4	21	23	22	bringing
13	b		2	10	7	♐ 6	1	24	4	23	24	22	rain or
14	c		3	11	19	26	1	24	5	24	25	22	snow.
15	d	Sun r. 7.55	4	12	2	♑ 0	1	25	6	25	26	22	
16	e		5	13	14	40	1	25	6	26	27	22	
17	f		6	14	27	36	2	25	7	28	27	22	Cloudy
18	g	23 p. Trin.	7	15	10	♒ 40	2	25	8	29	28	22	
19	a		8	16	24	6	2	25	8	♑	29	22	☽ perige.
20	b	Day 8 h.	9	17	7	♓ 41	2	26	9	1	29	22	✱ ♄ ♀
21	c	Obl. V. M.	10	18	21	31	2	26	10	3	29	22	Indifferent
22	d		11	19	5	♈ 39	2	26	10	4	29	22	
23	e		12	20	20	6	2	26	11	5	29	21	☽ cum ☊
24	f	Sun s. 3.56.	13	21	4	♉ 45	2	26	12	6	♑	21	good wea-
25	g	24 p. Trin.	14	22	19	32	2	27	12	8	29	21	ther ends
26	a		15	24	4	♊ 24	2	27	13	9	29	21	the month.
27	b		16	25	19	10	3	27	14	10	28	21	
28	c	Term end	17	26	3	♋ 39	3	27	14	11	27	21	
29	d	Da. 7 h. 44.	18	27	17	45	3	27	15	13	27	21	
30	e	S. Andre ✓	19	28	1	♌ 25	3	28	16	14	25	21	

Last Quarter the 4 day, 53 min. past 7 at night.
New Moon the 13 day, 26 min. past 1 in the morning.
First Quarter the 20 day, at 3 in the afternoon.
Full Moon the 27 day, 12 min. past 7 in the morning.

	Lunar Aspects.					
	☉	♄	♃	♂	☿	♀
1	△	□	☍			
2	20	13	22	□		
3				8	△	△
4	□	✶		✶	8	10
5	8	22		19		
6			△		□	□
7	✶		20		1	4
8	1					
9			□		✶	✶
10		☌	9	☌	21	0
11		0	✶	3		
12	☌		23			
13	13					
14		✶			☌	☌
15		23		✶	11	11
16			☌	8		
17	✶	□	19	□		
18	17	8		18		
19		△			✶	✶
20	□	15		△	12	9
21	3		✶	3	□	□
22	△		8		21	14
23	10	☍	□			△
24		20	10	☍	△	16
25			△	12	4	
26	☍		11			
27	18	△				☍
28		22		△	☍	16
29			☍	19	14	
30		□	17			

Remarkable Observations.

This Month of *November*, takes the name likewise from the order that it beareth in the Calender, as being the ninth month from *March*. But in the days of the Emperor *Commodus* it was called *Exuperatorius*, by which name the flattering Sycophants of *Commodus* used to call him. The *Saxons* called this month *Wint-monat*, that is Wind-month, because of the blustering Winds, which usually happen in this Month, more than in any other.

Now Earth is cloathed in horrid weeds,
All flourishing Flowers are faded:
It well resembles state of man,
When Life by Death's invaded.

On the *7th* day of this month, happeneth a notable *Conjunction* of *Saturn* and *Mars*, in one degree of *Scorpio*.

December hath XXXI Days.

A Cloak oft worn, to keep one from the rain,
Blessed is he that peace seeks to maintain,
For 'tis the ground of peoples happiness,
Nurse of true concord, love, and all increase.
No Health in bloody war, peace we require,
This like the Sun, that the consuming Fire.

M.D.	W.D.	Festival Days.	☉ ♐		☽ ♌		♄ ♏	♄ ♑	♂ ♏	♀ ♑	☿ ♐	☊ ♈	Planets Mut. Asp.
1	f		20	29	14	38	3	23	16	15	24	21	wind and
2	☾	1. S. Adv.	21	31	27	24	3	28	17	16	23	21	☌ ☉ ♀
3	a		22	32	9	♍ 48	3	28	18	18	21	21	✶ ♂ ♀
4	b		23	33	21	55	3	28	18	19	20	21	rain.
5	c	Sun r. 8. 14	24	34	3	♎ 48	3	29	19	20	19	21	
6	d		25	36	15	36	3	29	20	21	18	21	☽ cum ☋
7	e		26	37	27	24	3	29	20	23	16	21	
8	f	C. V. Many	27	38	9	♏ 13	3	29	21	24	16	21	☽ Apog.
9	☾	2 Advent.	28	39	21	12	4	29	22	25	15	21	
10	a	Short. d.	29	41	3	♐ 21	4	29	23	26	14	21	good wea-
11	b		0 ♑	42	15	43	4	♒	23	28	14	21	ther for the
12	c	Valerius	1	43	28	20	4	0	24	29	14	20	season.
13	d	Lucy Vir.	2	44	11	♑ 11	4	0	25	♒	Di	20	☌ ♃ ♀
14	e		3	46	24	17	4	1	25	1	14	20	✶ ☉ ♄
15	f	Sun s. 3. 48.	4	47	7	♒ 34	4	1	26	3	14	20	Some snow
16	☾	3 Advent.	5	48	22	1	4	1	27	4	15	20	□ ♄ ♀
17	a		6	50	4	♓ 37	4	1	27	5	15	20	or rain,
18	b	Sun r. 8. 8.	7	51	18	20	4	2	28	6	16	20	and varia-
19	c		8	52	2	♈ 7	4	2	29	7	16	20	ble wea-
20	d	Sun r. 8. 10	9	54	16	11	4	2	29	9	17	20	☽ cum ☊
21	e	S. Thomas	10	55	0	♉ 20	5	2	♐	10	18	20	ther.
22	f		11	56	14	35	5	2	1	11	18	20	☽ perige.
23	☾	4 Advent.	12	57	28	58	5	3	2	12	20	20	
24	a	Ad & Eve.	13	59	13	♊ 22	5	3	2	14	21	20	Cold and
25	b	Nat. Chr.	15	0	27	43	5	3	3	15	22	20	cloudy
26	c	S. Stephen	16	1	11	♋ 49	5	3	4	16	23	20	✶ ♃ ♂
27	d	St. John	17	3	25	49	5	4	4	17	25	20	with snow
28	e	St. Innoc.	18	4	9	♌ 21	5	4	5	19	26	20	or rain,
29	f	Sun s. 3. 58.	19	5	22	31	5	4	6	20	27	20	perhaps
30	☾	David	20	6	5	♍ 18	5	4	6	21	28	20	turbulent
31	a	Silvester	21	8	17	44	5	5	7	22	♑	19	winds.

Last Quarter the 4 day, 37 min. past 3 in the afternoon.
New Moon the 12 day, 52 min. past 6 at night
First Quarter the 20 day, 26 min. past midnight
Full Moon the 28 day, 15 min. past 9 at night

Lunar Aspects

Remarkable Observations

This Month of *December* likewise taketh its name from the order that it beareth in the Calender, as being the tenth month from *March*, and was formerly called *Amatanius*; and this was also in the time when *Commodus* reigned, who gave his own Name to *August*: *September* he called *Herculus*, October *Invictus*, November *Exuperius*, and December *Amatonius*; but these names soon vanished, &c.

The *Saxons* called this Month *Winter-monat*, that is, Winter-month, but after they had received the Christian Faith, they called it *Heligh-monat*, or Holy-month, the holy Feast of *Christmas* being solemnized in this month, &c.

To end the year of force we must,
Whose counsel is warm meat to use:
Fly much wine, and banish lust,
And never the gifts of God abuse.

LAUS DEO.

The Dominion of the *Moon* in Mans Body, as she passeth under the twelve Signs of the Zodiack.

♈	Aries, *Head and Face.*	♎	Libra, *Reins and Loyns.*
♉	Taurus, *Neck and Throat.*	♏	Scorpio, *Secret Members.*
♊	Gemini, *Arms & Shoulders.*	♐	Sagitary, *Thighs and Hips.*
♋	Cancer *Breast and Stomack.*	♑	Capricorn, *Knees.*
♌	Leo, *Heart and Back.*	♒	Aquarius, *Legs.*
♍	Virgo, *Bowels and Belly.*	♓	Pisces, *Feet.*

The Characters of the seven Planets, with the *Dragons* Head and Tail.

♄ *Saturn*, ♃ *Jupiter*, ♂ *Mars*, ☉ *Sol*, ♀ *Venus*, ☿ *Mercury*, ☽ *Luna*, or the *Moon*, ☊ *Dragons head*, ☋ *Dragons tail.*

The *Aspects*, both old and new.

☌	*Conjunction*, when Planets are in one sign and degree.
S S	*Semisextile*, when they are distant one sign.
⚹	*Sextile*, when they are asunder two signs.
⚺	*Quintile*, when distant one from another, two signs, twelve degrees.
□	*Quartile*, when they are three signs distant.
T D	*Triderile*, when they are asunder three signs, eighteen degrees.
△	*Trine*, when they are parted four signs.
B q	*Biquintile*, when they are distant four signs, twenty four degrees.
V c	*Quincunx*, when they are asunder five signs.
☍	*Opposition*, when they are six signs one from another.

Of the Eclipses of the Luminaries that happen in this Year, 1688.

IN this Year, the Inhabitants of this our Earthly Star ſhall have happen unto them Four Eclipſes, two of the *Sun*, and two many of the *Moon*, and they happen as followeth.

The firſt Eclipſe will be of the *Moon*, on the 5 day of *April*, about 40. min. paſt ſix of the Clock in the Afternoon, but abſolutely inviſible as to us, the *Moon* being at that time under the Earth.

The ſecond will be an Eclipſe of the *Sun*, on the 20. day of *April*, half an hour paſt 1. of the Clock in the Morning, and cannot be ſeen of us; but to our Antipodes it will be Viſible, and almoſt on their *Meridian*.

The third will be of the *Moon*, on the 29. day of *September*, about 11. of the Clock in the Morning, and cannot be ſeen of us, becauſe the *Sun* is then above the Earth.

The fourth and laſt, will be an Eclipſe of the greater Luminary the *Sun*, on the 14 day of *October*, a little paſt 7. in the Morning, the latter part of this Eclipſe if the Air be clear, may be ſeen with us, but all cannot, becauſe it happeneth before *Sun* riſing.

The REGAL TABLE, from the time the ENGLAND was first so called by Egbert untill 1688.

Kings Names.	Reig. bega A.C.	Reigned	Kings Names.	Reig. bega A.C.
K. Egbert	818	18	Richard 1.	1189
Ethelwolf	836	21	King John	1199
Ethelbald	857	1	Henry 3.	1216
Ethelbert	858	5	Edward 1.	1272
Ethelfred	863	10	Edward 2.	1307
Alfred	873	27	Edward 3.	1326
Edward 1. Saxon.	900	24	Richard 2.	1377
Ethelston	924	16	*Line of Lancaster.*	
Edmond 1.	940	6	Henry 4.	1399
Edred	946	9	Henry 5.	1413
Edwin	955	4	Henry 6.	1422
Edgar	959	20	*Line of York.*	
Edward 2. Saxon.	979	3	Edward 4.	1460
Ethelred	988	34	Edward 5.	1483
Edmond 2.	1016	1	Richard 3.	1483
Danish Line.			*Families united.*	
Canutus 1.	1017	20	Henry 7.	1485
Harold 1.	1037	3	Henry 8.	1509
Canutus 2.	1040	2	Edward 6.	1547
Edward Confes.	1042	23	Queen Mary	1553
Harold 2.	1065	2	Q. Elizabeth	1558
Norman Line.			*Kingdoms united.*	
William Conqueror	1067	20	James 1.	1602
William Rufus	1087	13	Charles 1.	1625
Henry 1.	1100	35	Charles 2.	1648
King Stephen	1135	19	James 2.	1685
Saxon Line Rest.			*Whom God preserve.*	
Henry 2.	1154	35		

Fear God, Honour the King.

Of the Four Quarters of the Year; and first of the Spring.

The *Spring Quarter* is called the *Vernal Equinox*, and derives its name *a virendo*, from *flourishing: Quia tunc omnia florent, & virent*, because then all things flourish and are green. It begins when the Sun, the glorious Lamp of Heaven, entereth the first point of *Aries*, making the days and nights equal all the World over, except under the polar Circles. This glorious time this year beginneth on *March* the Ninth day, according to *Gadbury*'s Tables, at one hour 36 min. past *Merid.* the Position of the Heaven being then as followeth.

The

The difference between Mr. *Gadbury's* time of the *Vernal Æquinox*, and Mr. *Streets*, is 2 hours and 10 min. is thus proved, *Ex tabulis Carolinis*:

Tempus Dat.	S.	°	′	″	S	°	′
1688 a	6	13	33	20	0	28	40
7	11	29	13	12			
Martis	1	28	00	04			
Bissex. Die	0	00	51	22			
Horæ	0	0	7	24			
Min.	0	0	1	53			
Sec.	0	0	0	24			
Anomali Med. ☉	8	10	56	16	0	28	40
Long ☉ a ♈	11	01	14	15			
Præ Æquinox		28	45	45			
Lon. ☉ a Equ.	00	00	00	00			

At which time, 29 degrees of ♉ or the *Bull*, culmi[nated] upon the mid Heaven; and 6 degrees and 30 min. of ♍ or the *Virgin*, ascends our Horizon: So great a differen[ce] that it altereth the position of the Heavens conside[r]ably; and whatever confidence & commendation every man has of his own, it is to be lamented, that we want a more precise and exact concurrence, requisite to raise thereon a compleat structure, that might better withstand the impetuous Storms that continually arise from the turbulent Seas of malice and ignorance.

Of Summer.

THe Summer, called in Latin *Æstas*, derived of *Æstus* from the exceeeding heat; so also doth the English word *Summer* expresse it, it being a *German* word, and signifieth *Sun-moth*, that is *plus solis*, or more Sun than other times. This Quarter may well be called the Month of Plenty, and Empress over many Kingdoms; whose Robes are fields of standing Corn; whose Crown is a Garland planted of all varieties of Fruits.

This red-lipt, lively-fac'd, rosie-finger'd Damsel, com[es]

[illegible] Coronation, and hapneth this year on the 10. day [illegible], at 46 min. past 3 in the Afternoon: at which [illegible] the Sun hath made his furthermost Northern Jour[illegible] towards the pole Artick, he being declined from the [illegible]noctial 23 deg. 30 min. making the longest days to [illegible] Northern, and shortest days to all *Southern* Inhabitants, [illegible] Amplitude now being 40 degrees from the *East* or [illegible] Northward; so that he riseth *North-east* half a point *Easterly*, and sets *North-west* half a point *Westerly*. He will be just on the *East* point at 20 min. past 8 of the Clock in the morning, and on the *West* point at 40 min. past 4 in the afternoon. His *Meridian* Altitude is now 62 degrees, and his depression at midnight only 15 deg. So that we have no proper night at this time, but twi-light only; nor never have any part till the Sun be depressed 18 degrees below the Horizon, and that she never is (in this our Horizon) between the 12. of *May*, and about the 12. of *July*; all which time we may conclude it to be continual day, having some hours of twi-light. This Quarter continues till the Sun hath passed through ♋, ♌ and *Virgo*, and continues part of the Month of *June*, all *July*, *August*, and part of *September*.

Of Autumn.

The *Autumnal* Quarter taketh its name from *Autumnus*, which signifieth to make ripe; or, it is called *Autumn* from *Augeo*, *quia tunc fruges augentur*; it takes its beginning when the Sun enters the first Scruple of *Libra*, producing the second *Equinox* to all on this side of the polar Circles: it takes its beginning this year on the 12. day of *September*, at 31 min. past 7 in the morning. This Quarter continues till the Sun hath passed ♎, ♏ and ♐, & continues part of *September*, all *October*, *November*, & part of *December*.

Of Winter.

The *Winter* is called *Hyems*, *quia multi imbres*; because it brings wet slabby weather. We account it the last Quarter, others have accounted it the first, for this reason, *Quia tunc sol ad nos ascendere incipit*; because the Sun

 then

then begins to ascend unto us. This Season takes beginning this year on *December* the 10. day, 29 min past the afternoon, the Sun then entring into the first Scruple of the Southern Tropical Sign ♑, making with us the shortest day and longest night, &c.

A Table shewing the Longest Day in all places from the Equinoctial to the Poles of the World, *Viz.*

Pol. light.	Longest day. ho.	m.	Pol. light.	Longest day. ho.	m.	Pol. light.	Longest Day containing Days	ho.	m.
0	12	0	47	15	42	68	42	1	16
6	12	20	48	15	52	69	54	16	25
12	12	42	49	16	0	70	64	13	46
16	12	58	50	16	10	71	74	00	00
20	13	12	51	16	20	72	82	6	36
24	13	13	52	16	30	73	89	4	58
27	13	42	53	16	42	74	96	17	00
30	13	56	54	16	54	75	104	01	04
32	14	6	55	17	08	76	110	07	37
34	14	16	56	17	22	77	116	14	22
35	14	22	57	17	36	78	122	17	06
36	14	28	58	17	52	79	127	19	55
37	14	34	59	18	10	80	134	4	58
38	14	38	60	18	30	81	139	1	36
39	14	44	61	18	54	82	145	6	43
40	14	52	62	19	20	83	152	2	00
41	14	58	63	19	50	84	156	3	02
42	15	4	64	20	24	85	161	5	23
43	15	12	65	21	10	86	166	11	23
44	15	18	66 ½	22	18	87	171	21	41
45	15	26	66	24	00	88	176	5	29
46	15	34	67	24	Days	89	181	21	58
						90	187	06	39

Find

find the hight of the Pole in the first, third or fifth climate, and right against the same, in the other climates you have the longest day under that Latitude, &c.

Of the Golden Number, Epact, and Circle of the Sun, and how to find it for ever.

The *Golden Number* is a periodical Revolution of 19 years; in which time all the Lunations or Aspects between the Sun and Moon return to the same place they were at 19 years before; which is nearly true, but not exactly so: for in 19 years there is an Anticipation of an hour and an half very near; so that look what Conjunction happens this year in *Libra* at Noon, will 19 years hence be an hour and an half before noon. This Circle is called *Decem Novenalis Circulus*, whose parts are called the *Golden Number*, because at first they were written with Golden Characters, in Tables of Silver, and so sent to Rome.

The *Epact* is a Number of 11 days, which the common Lunar year doth exceed the common Lunar year, the one containing 365 days, and the other but 354: from which difference cometh the *Epact*, which is added to the Lunar year, to make them equal, &c.

To find the *Golden Number* for any year, add to the proposed year of our Lord 1, (for so much was the *Golden Number* when Christ was born) which divide by 19, the remainder is the *Golden Number*.

To find the *Epact* for ever, multiply the *Golden Number* by 11, divide the Product by 30, the Remainder is the *Epact* for that year: or, add 11 to the *Epact* of this year, have you the *Epact* of the next: or, see the Age of the Moon the 28th. day of *February*, for that is the Number of the *Epact*, &c. But because either of these ways may seem to some hard to be done, I shall add this following Table, whereby much Labour will be saved.

A Table to find the *Golden Number* and *Epact* for ever.

Gold. Numb.	Epact.	Ann. Chr.
1	11	1691
2	22	1692
3	3	1693
4	14	1694
5	25	1695
6	6	1696
7	17	1697
8	28	1698
9	9	1699
10	20	1700
11	1	1701
12	12	1702
13	23	1703
14	4	1704
15	15	1705
16	26	1687
17	7	1688
18	18	1689
19	29	1690

Note, the *Golden Number* changeth the first day of *January*; and the *Epact* always changeth on the first day of *March*: And to find it by this Table, it's no more but cast your eye on the year of our Lord, & right against it, towards the Left hand, you have your desire. *Examp.* Against 1688 I find 7 for the *Epact*, and 17 for the *Golden Number*, *&c. sic alij.* And when the years in this Table be expired, begin them again, placing 1706 where 1687 is, *&c.* so shall your table be for ever.

In like manner do the same in all particulars to find the *Circle of the Sun* and *Dominical Letters*; and when the years in that table are expired, begin them again,

A Table to find the Cycle of the Sun and Dominical Letters in both accounts for ever, &c.

Anno Christi.	Julian Acco.	Circle of ☉	Gregor. Acc.
1700	G	F	10
1701	E		21
1702	D	3	G
1703	C	14	1
1704	B	A	E
1705	G	6	C
1706	F	17	1
1707	E	28	A
1708	D	C	9 G
1709	B	10	F
1710	A	11	D
1711	G	12	C
1712	F	E	13 B
1713	D	14	G
1714	C	15	F
1687	B	16	E
1688	A	G	17 D C
1689	F	18	B
1690	E	19	A
1691	D	20	G
1692	C	B	21 F
1693	A	22	D
1694	G	23	C
1695	F	24	B
1696	E	D	25 A G
1697	C	26	F
1698	B	27	E
1699	A	28	D

placing

acing 1715 where 1687 is, &c. so shall your ...le be for ever.

Note, the *Circle of the Sun* changeth the first ...day of *January*, and in *Bissextile* or *Leap-year* the ...th day next before the Calends of *March* is ... repeated, which indeed is the 25th. of ...ary, St. *Matthias* Day, &c.

A Curious plain Table to find the day of the Change of the Moon for ever by the Golden Number, &c.

Gol. Num.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	19	18	19	18	17	16	15	13	12	11	10	9
2	8	7	7	6	6	4	4	2 1	29	29	28	27
3	26	24	26	25	25	23	22	21	19	19	17	17
4	15	14	15	14	14	12	12	10	9	8	7	6
5	4	3	5	3	3 1	30	30	29	28	27	26	25
6	24	22	22	21	20	19	18	17	16	15	14	14
7	12	11	12	11	10	8	8	6	5	5	3	3
8	1	1	2	30	29	27	26	25	24	23	22	22
9	21	19	21	19	19	17	16	15	13	12	11	11
10	10	9	9	8	7	6	5	3	2 1	31	29	29
11	28	26	28	27	26	25	24	22	21	20	19	18
12	17	16	18	16	16	14	13	12	10	10	8	7
13	6	5	6	4	4	3	2 1	30	28	28	26	26
14	24	23	24	23	23	21	21	19	18	17	16	15
15	14	12	14	12	12	10	10	9	7	7	5	5
16	3	2	3	2 1	30	29	29	28	26	26	24	23
17	22	21	21	20	19	17	17	16	14	14	13	12
18	11	9	10	9	9	7	6	5	3	3	2 1	31
19	30	28	30	28	28	26	25	24	22	22	20	20

Example. Against 1688 I find 17 the *Golden Number*, I would know

knew when the Moon changeth in *May*: I find in the Angle of Meeting 19. which sheweth me, the Moon changeth the 19th. day, &c.

A Table for the Ganging of Vessels.

Diameter in inches.	Gauge parts for the Head.	Gauge parts for the Bung.	Diameter in inches.	Gauge parts for the Head.	Gauge parts for the Bung.
1	0001	0002	31	1089	2178
2	0002	0009	32	1160	2321
3	0010	0020	33	1234	2468
4	0018	0036	34	1310	2620
5	0028	0056	35	1388	2776
6	0041	0081	36	1469	2938
7	0056	0111	37	1551	3103
8	0072	0145	38	1636	3272
9	0092	0184	39	1724	3448
10	0113	0226	40	1813	3626
11	0137	0274	41	1904	3809
12	0163	0326	42	2000	4000
13	0192	0383	43	2096	4192
14	0222	0444	44	2194	4388
15	0255	0510	45	2295	4591
16	0290	0580	46	2398	4796
17	0328	0517	47	2503	5007
18	0367	0734	48	2611	5222
19	0409	0818	49	2721	5442
20	0453	0906	50	2833	5666
21	0500	1000	51	2948	5896
22	0548	1097	52	3064	6129
23	0599	1199	53	3183	6367
24	0653	1306	54	3305	6610
25	0708	1416	55	3428	6856
26	0766	1532	56	3554	7108
27	0826	1652	57	3682	7364
28	0888	1777	58	3812	7625
29	0953	1906	59	3945	7890
30	1020	2040	60	4080	8160

The use of this Table is for the Measuring of a *Barrel*, *Hogshead*, *Butt*, *Puncheon*, *Hogshead*, or small Cask, according to the Wine Measure, whose Gallon is in proportion to the Ale Gallon; as 231 is to 282, so are the Ale Gallons to the Wine: which when you have by this Table found the Contents of the Vessel in Wine Gallons, you may (according to the said proportion) reduce it to the Ale Measure.

Now, to measure any of the Vessels before mentioned by this Table, first find the Diameter at Head and Bung, with both which enter the Table, and the Sums that you find against the two Diameters, take from the Table and add together; then multiply the Sum by the Inches of the Vessels length from head to head in the inside,

and

then, from that product, take your Pen and cut off three Figures towards the right hand; so shall you have the Gallons, and parts of a Gallon, &c.

Example.

Suppose a Vessel at the Head to be 24 inches, and the Diameter at the Bung to be 30 inches, and the length of the Vessel 42 inches, the question is, how many Gallons of Wine will this Vessel hold: I find against 24 inches, the least Diameter, the number 0, 853, and against 30 inches the Diameter at the Bung, under title *Gauge parts for Wine*, I find 2040, which two Sums being added together, the product is ——— 2693

which multiplyed by the length ——— 42

the product will be found to be ———

113106, then cutting off three Figures towards the right hand, you have then 113 Gallons and parts, &c. being reduced

	5386
	10772
	113,106

to the Ale Measure, it will be found to be 92, $\frac{31}{32}$ Gallons, &c. I did intend (if my occasions would have permitted) to have Written something more of this Subject; but being confined for want of room, I cannot at present proceed any farther therein: But if this find acceptance, and my occasions will permit, you may expect hereafter something more, that will be both for your profit and pleasure, &c.

How to measure Board.

Multiply the breadth into the length, and the Product will shew the Content: As, suppose the breadth to be 9 inches, and the length 10 foot, or 120 inches; these two numbers being multiplyed together, the product will be 1080 inches; which divided by 144, the number of inches in a foot of Board, the quotient will be 7 5, seven foot and a half, which is the Content.

A Table shewing the quantity of one foot length square Board, of what breadth soever under 36 inches.

Br.	F.	Parts	Br.	F.	Parts	Br.	F.	Parts	Br.	F.	Parts
1	0	083	10	0	833	19	1	583	28	2	333
	0	125		0	875		1	625		2	375
2	0	166	11	0	916	20	1	666	29	2	416
	0	215		0	958		1	708		2	466
3	0	250	12	1	000	21	1	750	30	2	500
	0	291		1	041		1	791		2	541
4	0	333	13	1	088	22	1	833	31	2	583
	0	375		1	125		1	875		2	625
5	0	416	14	1	166	23	1	916	32	2	666
	0	465		1	215		1	958		2	708
6	0	500	15	1	250	24	2	000	33	2	750
	0	541		1	291		2	041		2	791
7	0	583	16	1	333	25	2	083	34	2	833
	0	625		1	375		2	125		2	875
8	0	666	17	1	416	26	2	166	35	2	916
	0	708		1	465		2	215		2	958
9	0	750	18	1	500	27	2	250	36	3	000
	0	791		1	541		2	291			

The Use of this Table is very easie; for having measured the Breadth, seek it in the Table, in one of the lesser Columns, and the Number against it, multiplied by the number of feet contained in the length of the Board, and then cutting three figures off, the Product next to the right hand, will shew the Content of that Board, and the figures so cut off towards the Right hand, the number of parts; as, in the former Example the breadth was 9 inches, and you have in the Table against it 0,750, which multiplied by 10 feet the length, there will arise 7,500, then cut off three figures next the right hand, as you see, the work will be as before, 7 foot and an half; for 5, or five tenths, is one half foot, 25 one quarter, 0,75 three quarters, &c.

How

How to measure ſquare Timber.

MUltiply the breadth by the thickneſs, and then multiply that product by the length, ſo ſhall you have the ſolid content. *Examp.* Let the breadth be 11 inches, the thickneſs 11 inches, which multiplied into it ſelf, produceth 121 inches, which multiplied by the length, 10 foot or 120 inches, the Product will be 14520, which divided by 1728, the number of inches in a ſolid foot of Timber, the quotient will be 8, 4, or 8 foot and four tenths of a foot. But for the eaſe of young Beginners, I will inſert this Table following, *viz.*

A Table ſhewing the quantity of one Foot length of any ſquared piece of Timber.

Inches Square.

	F.	Par.		F.	Par.		F.	Par.		F.	Par.
10	0	007	10	0	694	19	2	507	28	5	445
	0	016		0	765		2	641		5	670
20	0	028	11	0	840	20	2	778	29	5	840
	0	043		0	919		2	918		6	043
30	0	062	12	1	000	21	3	062	30	6	250
	0	085		1	085		3	210		6	460
40	1	111	13	1	174	22	3	440	31	6	673
	0	140		1	266		3	516		6	890
50	1	174	14	1	361	23	3	673	32	7	111
	0	210		1	460		3	835		7	333
60	1	250	15	1	562	24	4	000	33	7	562
	0	293		1	668		4	166		7	780
70	1	340	16	1	778	25	4	340	34	8	028
	0	390		1	891		4	513		8	263
80	1	444	17	2	007	26	4	694	35	8	507
	0	502		2	127		4	877		8	750
90	1	562	18	2	250	27	5	063	36	9	000
	0	627		2	377		5	250			

The Uſe of this Table.

Having the Square of any piece of Timber in inches, and the length in feet, the Content may be found thus: Firſt find

find the inches square in the proper Column, and take the Number answering to it in the other Column, and multiply it by the length in feet, the Product will be the Content, observing to cut off the last three figures: So if a piece of Timber be 11 inches square, and the length 1 foot, the number answering to 11 inches square is 0,8400, which multiplied by 10, the length in feet, the result will be 0,8400, then taking off three figures towards the right hand, I have 8 foot and 4 tenths, as in the former Example.

How to measure Round Timber.

AMongst Artificers, it hath been an opinion as ancient as the building of *Solomon's* Temple, (as appears by 2 *Chron.* 4. 2. 1 *Kings* 7. 23.) that the Circumference of a Circle was in proportion to the Diameter, as 3 to 1. And I have heard several confidently affirm, that if the Circumference of a round stick was 6 foot or 72 inches, that one foot length of that stick did contain 3 foot of solid Timber; which is false: for the circumference of a Circle is in proportion to its Diameter, as 22 to 7, or more nearly, as 3,1416 to 1; and by this account, if the Circumference be 72 inches, the Content of a foot will be 2,864, that is, two foot 864 thousand parts of a foot, and no more; which those that please may thus try, as, 1 to 0,0795775: so the Square of the Circles Circumference to the Content of the Circle, which multiplied into the length of the stick, in inches, gives the content. *Examp.* Let us suppose the Compass of the stick to be 72 inches, as before, then, as 1 is in proportion to 0,0795775, so is the Square of the Circumference 5184 to 0412,4297600, the Content of the Circle; which multiplied by 12, the inches in one foot length, the Product will be 4949,15712, which divided by 1728, the inches in a foot, the quotient will be 2,864, as before: if the stick had been 10 foot long, the Content of the Circle, 412,4297600 must have been multiplied by 120, the inches in 10 foot; and the Product 494915712000 divided by 1728, the quotient 28,64 would be the Content, *viz.* 28 foot, and 64 parts of one hundred. This I dare aver to be as exact, as is possible for

for any living man to measure. But, because it is hard to be done, I will add this following Table, whereby much Labour will be saved, and your Work well done, &c.

A Table shewing by the Compass of any piece of Round Timber, the Content of one Foot in the length thereof.

Comp.	F.	Par.	Comp.	F.	Par.	Comp.	F.	Par.	Comp.	F.	Par.
120	0	79	34	0	639	56	1	732	78	3	362
130	0	93	35	0	677	57	1	765	79	3	449
140	1	08	36	0	716	58	1	860	80	3	537
150	1	24	37	0	756	59	1	923	81	3	625
160	1	41	38	0	798	60	1	988	82	3	715
170	1	59	39	0	840	61	2	056	83	3	807
180	1	79	40	0	884	62	2	124	84	3	896
190	2	00	41	0	927	63	2	193	85	3	990
200	2	21	42	0	974	64	2	264	86	4	084
210	2	43	43	1	021	65	2	335	87	4	183
220	2	67	44	1	070	66	2	407	88	4	279
230	2	92	45	1	119	67	2	480	89	4	377
240	3	18	46	1	169	68	2	555	90	4	475
250	3	43	47	1	220	69	2	631	91	4	576
260	3	74	48	1	273	70	2	707	92	4	677
270	4	03	49	1	327	71	2	785	93	4	780
280	4	33	50	1	381	72	2	864	94	4	882
290	4	65	51	1	437	73	2	945	95	4	987
300	4	97	52	1	496	74	3	026	96	5	093
310	5	31	53	1	552	75	3	108	97	5	200
320	5	66	54	1	612	76	3	191	98	5	307
330	6	02	55	1	671	77	3	276	99	5	416
									100	5	526

The use of the aforegoing Table is easie; for finding the Compass in inches in its proper Column, against it you shall find the quantity of one foot length, which multiplied by the number of feet in the length of the stick, will give the Content of the whole stick.

Ex-

Example.

Let the Compass be 6 foot, or 72 inches, and the length 10 foot, as before; first seek 72 in the lesser Column, and against it you shall find in the other Column 2, 864, the Content of one foot length, as before. Now if this quantity 2, 864 be multiplied by 10, the number of feet contained in the length of the Stick, the Product 28, 640 will be the Content of the whole Stick, viz. 28 foot and 64, one hundred parts, as before; for you must know that Cyphers at the Right hand of parts signifie nothing, nor at the Left hand of whole numbers; so that you may omit them as you see occasion. Also for ease sake, you may leave out one or two figures towards the Right hand, and work with the other; but to use them all is more exact.

How to Measure Land.

MUltiply the length by the breadth, and the Product will shew the Content: As, suppose the breadth of a piece of Land to be 16 Perches, and the length 46 Perches, these two numbers being multiplied together, the Product will be 736 Perches, which divided by 160, the number of Perches in an Acre of Land, the Quotient will be 4, and 96 Perches over; which sheweth this piece of Land containeth 4 Acres, 2 Roods, and 16 Perches. Note, That 40 Perches make one Rood, and four Roods make one Acre.

A Table shewing how many Years Purchase a Lease or Annuity, to endure for any number of Years under 33, is worth at Interest upon Interest, at 6 l. per Cent.

Years of a Lease.	Years.	Months.	Parts.
1	0	11	0
2	1	9	9
3	2	8	1
4	3	5	9
5	4	2	5
6	4	11	0
7	5	7	0
8	6	2	5
9	6	9	6
10	7	4	2
11	7	10	7
12	8	4	6
13	8	10	3
14	9	3	6
15	9	8	5
16	10	1	3
Purchase.			

Years of a Lease.	Years.	Months.	Parts.
17	10	5	8
18	10	9	3
19	11	1	7
20	11	5	3
21	11	9	0
22	12	0	6
23	12	3	6
24	12	6	4
25	12	9	0
26	13	0	5
27	13	2	5
28	13	4	9
29	13	7	1
30	13	9	2
31	13	11	1
32	14	1	0
Purchase.			

The Use and Explanation of the Table.

The first Column towards the Left Hand sheweth the Years of a Lease; and Right against each Year is the Years, Months, and Parts of a Months Purchase that such a Lease is worth.

Example.

Suppose there be a Lease or Annuity to continue 10 Years, and you would know how many Years Purchase it is worth, look in the Table of Ten Years of a Lease, and against the same you will find 7, 4, 3, which sheweth such a Lease to be worth Seven Years, Four Months, and three Parts of a Month, &c.

An

An Exact Table of Interest, shewing the true Int[erest] due upon any Sum of Money, from five shill[ings] to an hundred pounds, for a Year or under, [at] the Rate of 6 lib. per Cent.

		1 Mon.			3 Mon.			6 Mon.			9 Mon.			A Year		
		sh.	p.	q.	sh.	p.	q.	sh.	p.	q.	sh	p.	q.	sh.	p.	q.
Shill.	5	0	0	1	0	0	3	0	1	3	0	2	2	0	3	2
	10	0	0	2	0	1	3	0	3	2	0	5	2	0	7	0
	15	0	0	3	0	2	2	0	5	1	0	8	0	0	10	2
Pounds.	1	0	1	0	0	3	2	0	7	0	0	10	2	1	2	1
	2	0	2	1	0	7	0	1	2	1	1	9	1	2	4	2
	3	0	3	2	0	10	2	1	9	1	2	7	3	3	6	3
	4	0	4	3	1	2	1	2	4	2	3	6	3	4	9	0
	5	0	6	0	1	6	0	3	0	0	4	6	0	6	0	0
	6	0	7	0	1	9	2	3	7	0	5	4	2	7	2	1
	7	0	8	1	2	1	0	4	2	1	6	3	1	8	4	2
	8	0	9	2	2	4	2	4	9	1	7	1	3	9	6	3
	9	0	10	3	2	8	1	5	4	2	8	0	3	10	8	0
		p.	sh.	q.	p.	sh.	q.	p.	sh.	q.	p.	sh.	q.	p.	sh.	q.
Tens of Pounds.	10	0	1	0	0	3	0	0	6	0	0	9	0	0	12	0
	20	0	2	0	0	6	0	0	12	0	0	18	0	1	4	0
	30	0	3	0	0	9	0	0	18	0	1	7	0	1	16	0
	40	0	4	0	0	12	0	1	04	0	1	16	0	2	8	0
	50	0	5	0	0	15	0	1	10	0	2	05	0	3	0	0
	60	0	6	0	0	18	0	1	16	0	2	14	0	3	12	0
	70	0	7	0	1	1	0	2	2	0	3	13	0	4	4	0
	80	0	8	0	1	4	0	2	8	0	3	12	0	4	16	0
	90	0	9	0	1	7	0	2	14	0	4	1	0	5	8	0
	100	0	10	0	1	10	0	3	0	0	4	10	0	6	0	0

FINIS.